

Message

---

**From:** Payne, James [payne.james@epa.gov]  
**Sent:** 7/27/2018 11:53:53 PM  
**To:** Poy, Thomas [poy.thomas@epa.gov]  
**CC:** Holst, Linda [holst.linda@epa.gov]; Baltazar, Debbie [baltazar.debbie@epa.gov]; Rowan, Anne [rowan.anne@epa.gov]; Bassler, Rachel [Bassler.Rachel@epa.gov]; Kelley, Jeff [kelley.jeff@epa.gov]; Thiede, Kurt [thiede.kurt@epa.gov]  
**Subject:** RE: Proposed Sampling for Parchment PFAS Incident

Thanks Tom.

Sharing here with a smaller, internal group.

And Tom thanks for clarifying for me that this sampling plan refers to:

- (1) currently, sampling of water that is now being flushed into sanitary lines into town's wastewater treatment plant, and
- (2) once flushing is complete, then sampling of water that is in the town's water supply and in regular use.

In other words, there is no current or planned flushing of water into a receiving stream.

---

**From:** Poy, Thomas  
**Sent:** Friday, July 27, 2018 4:15 PM  
**To:** Bishop, Heather (DEQ) <BishopH@michigan.gov>; Speth, Thomas <Speth.Thomas@epa.gov>  
**Cc:** Graham, Lois (DEQ) <GRAHAML@michigan.gov>; Krisztian, George (DEQ) <krisztiang@michigan.gov>; Oswald, Eric (DEQ) <OswaldE1@michigan.gov>; Onan, Brandon (DEQ) <OnanB@michigan.gov>; Bloemker, Jon (DEQ) <BLOEMKERJ@michigan.gov>; Paquin, John <PaquinJ@kalamazoocity.org>; Public Works <parchmentdpw@gmail.com>; Baker, James <bakerj@kalamazoocity.org>; Johnson, Teresa <johnsont@kalamazoocity.org>; skalskis@kalamazoocity.org; Deater, Shannan <deaters@kalamazoocity.org>; Holst, Linda <holst.linda@epa.gov>; Baltazar, Debbie <baltazar.debbie@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>  
**Subject:** RE: Proposed Sampling for Parchment PFAS Incident

Ms. Bishop:

Thank you for the opportunity to review the sampling plan for Parchment. ORD and Region 5 have the following comments for your consideration.

- 1) The sampling plan looks very good.
- 2) Since Parchment normally adds orthophosphate and Kalamazoo does not (besides the breakdown of hexametaphosphate added as a sequestering agent), we recommend that while the pre-flushing samples (including orthophosphate) are being taken, that planning should be done for the addition of orthophosphate to the water going into the Parchment system. There is the distinct possibility that the orthophosphate level in the Kalamazoo water will not match that of the normal Parchment water.
- 3) ORD would recommend also sampling for turbidity or color, whatever is easier. This is an easy field analysis and would give an immediate idea of whether iron, manganese, or other particulate issues are cropping up.
- 4) ORD would recommend weekly sequential sampling at one LSL site. This would assure that any corrosion potential differential between waters is not affecting the LSL. The sampling outlined by MDEQ will give an excellent feel for how the new water is impacting the premise plumbing, but not necessarily how it is impacting a LSL. Comparing the data over a number of weeks would make sure things are not heading in the wrong direction for LSLs. Of course, more sites would be ideal, but it is acknowledged that this would be a burden.

- 5) It is good that chloride and sulfate levels will be analyzed for in the sampling plan. Do you have current individual chloride and sulfate levels that you can share?
- 6) ORD is available to help with the corrosion or PFAS component of this effort, if requested.

Tom

---

Tom Poy  
Chief, Ground Water and Drinking Water Branch  
USEPA - Region 5  
(312) 886-5991

---

**From:** Bishop, Heather (DEQ) [<mailto:BishopH@michigan.gov>]  
**Sent:** Friday, July 27, 2018 1:34 PM  
**To:** Speth, Thomas <[Speth.Thomas@epa.gov](mailto:Speth.Thomas@epa.gov)>; Poy, Thomas <[poy.thomas@epa.gov](mailto:poy.thomas@epa.gov)>  
**Cc:** Graham, Lois (DEQ) <[GRAHAML@michigan.gov](mailto:GRAHAML@michigan.gov)>; Krisztian, George (DEQ) <[krisztiang@michigan.gov](mailto:krisztiang@michigan.gov)>; Oswald, Eric (DEQ) <[OswaldE1@michigan.gov](mailto:OswaldE1@michigan.gov)>; Onan, Brandon (DEQ) <[OnanB@michigan.gov](mailto:OnanB@michigan.gov)>; Bloemker, Jon (DEQ) <[BLOEMKERJ@michigan.gov](mailto:BLOEMKERJ@michigan.gov)>; Paquin, John <[PaquinJ@kalamazoocity.org](mailto:PaquinJ@kalamazoocity.org)>; Public Works <[parchmentdpw@gmail.com](mailto:parchmentdpw@gmail.com)>; Baker, James <[bakerj@kalamazoocity.org](mailto:bakerj@kalamazoocity.org)>; Johnson, Teresa <[johnsont@kalamazoocity.org](mailto:johnsont@kalamazoocity.org)>; [skalskis@kalamazoocity.org](mailto:skalskis@kalamazoocity.org); Deater, Shannan <[deaters@kalamazoocity.org](mailto:deaters@kalamazoocity.org)>  
**Subject:** Proposed Sampling for Parchment PFAS Incident

Good Afternoon Mr. Speth and Mr. Poy,  
The City of Kalamazoo and City of Parchment water supplies are currently connected via three locations. Kalamazoo is utilizing fire truck pumps, pumping hydrant to hydrant, to maintain pressure in the Parchment distribution system. The Parchment wells have been removed from service. We would like to begin systematically flushing the Parchment system with Kalamazoo water. We have collectively agreed on the following sampling plan:

Prior to flushing, the following samples will be collected at three locations in Parchment, and two locations in Kalamazoo:

Cl2, Chloride, Sulfate, Iron, Alkalinity, ortho, manganese, pH, Calcium, temp

Kalamazoo is going to test as many parameters as possible in house, and then we will review that data. After we review and approve of the data, a systematic flushing protocol will then commence. We anticipate flushing process will take 16-24 hours to fully turn over the system; this will be done at the discretion of the two water supplies (based on system pressure and pumping capabilities). The flushing is intended to stabilize the water quality to assist in the analysis of determining Kalamazoo water is present in the entire Parchment distribution system.

As the system is being turn over, the water quality parameter samples will be collected two times per day. Then we will move to sampling three times a week, two times a week, etc.

After the water is turned over, Parchment distribution PFAS sampling will begin. The City of Kalamazoo is making arrangements for AECOM to collect the samples as soon as practical. The three distribution locations in Parchment are planned for this sampling. They will sample every day until we get our first sample result back, approximately 3-4 days. Further sampling will be based on results.

Starting Tuesday or Wednesday Lead Copper sampling will begin from the existing Parchment sampling pool. One first draw sample will be collected at each address. Further sampling will be evaluated as results come in.

#### Parchment Sampling locations

202 N. Riverview Parchment professional building (routine bacteria location)  
648 N Riverview Drive Speedway Gas station (routine bacteria location)  
300 Maple Dept Public Works shop (routine bacteria location)

724 Shoppers Lane (back up/additional site if needed; routine DBP location)

Kalamazoo Sampling Locations

Mt. Olivet Tower

Fire Station Number 3

Please let us know if you have any comments on the plan.

Heather Bishop

Brandon Onan

Jon Bloemker

---

**From:** Lachance, Amy (DEQ)

**Sent:** Friday, July 27, 2018 1:03 PM

**To:** Bishop, Heather (DEQ) <[BishopH@michigan.gov](mailto:BishopH@michigan.gov)>

**Subject:** Re: status

Not a requirement but if they don't get them shipped today, it will be next Thursday before results. Eric told Jon at noon that they may as well finish flushing.

Sent from my iPhone

On Jul 27, 2018, at 12:59 PM, Bishop, Heather (DEQ) <[BishopH@michigan.gov](mailto:BishopH@michigan.gov)> wrote:

Is the PFAS testing a requirement today?

Sent from my iPhone

On Jul 27, 2018, at 12:53 PM, Lachance, Amy (DEQ) <[LACHANCEA1@michigan.gov](mailto:LACHANCEA1@michigan.gov)> wrote:

We have a conference call at 2pm where we will need to report the status of the issues we have been dealing with. By then, please let me know (call if you want):

- Issues/concerns raised during press conference
- Status of flushing of Parchment system with Kzoo water – they want to get it flushed through and get PFAS samples today to send to lab.
- Outstanding concerns with regard to water quality changes in new source – short and long term

Next steps appear to be:

- Continuing to provide feedback to both supplies regarding the engineering and treatment specifics of the switchover – need orthophosphate boost? Is this a long term solution?
- Working on a monitoring plan to verify water quality prior to lifting the advisory.
  - PFAS, L&C, Bacti/CI Res./DBP(?)
  - How many rounds?
  - What PFAS levels are acceptable?

Thanks - Amy